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SECRET

24 April 1958

(IN TRIPLICATE)

U. S. Government

Attention: Gentlemen

Subject: Broad Band Antenna, Filter and Video Detector System, Submission of Additional Quotation for

Reference: (a) [redacted] 25X1
telephone conversation of 22 April 1958

(b) [redacted] quotation letter 25X1
dated 28 March 1958

Gentlemen:

In confirmation of Reference (a), the bidder wishes to add the following to the Reference (b) quotation:

"The Phase I - design and development work corresponds to the Phase I study referenced in CEP 1073 wherein the basic problems will be studied and investigated experimentally. The Phase II - development of prototype models for production purposes as referenced in [redacted] letter 25X1 dated 28 March 1958 corresponds to Phases II and III of CEP 1073."

The bidder also wishes to submit an additional quotation for monthly informal letter progress reports for a period of three (3) months in the amount of $300.00 including fixed fee in the amount of $27.00.

Very truly yours,

[redacted] 25X1

Contract Administrator
GWB:js

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CONFIDENTIAL

[redacted] 25X1

(IN TRIPLICATE) 28 March 1958 SECRET

U. S. Government

Attention: Gentlemen

Subject: Broad Band Antenna, Filter and Video Detector System, Submission of Quotation for

Enclosure: (A) Estimated Cost Analysis, in triplicate

(B) [redacted] Equipment Proposal, CEP No. 1073, in triplicate 25X1

(C) [redacted] Antenna Research and Development, in triplicate 25X1

Gentlemen:

Pursuant to a recent request, the bidder submits the following cost-plus-fixed-fee quotation together with its estimated cost analysis, Enclosure (A), and engineering proposal, Enclosure (B):

Phase I - Design and Development

Item	Description	Quantity	Estimated Selling Price
1	Design and Development of Broad Band Antenna	1	$10,896.17
2	Design and Development of Filters	1	7,254.02
3	Design and Development of Video Detector	1	6,809.17
	Total Estimated Selling Price		$24,959.36
	Total Estimated Cost		$22,690.32
	Total Fixed Fee		2,269.04
	Total Estimated Selling Price		$24,959.36

In addition to the above firm quotation, the bidder submits the following budgetary fixed price quotation for Phase II, development of prototype models for production purposes resulting from work performed under Phase I:

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It is preferred to have all antennas and filters from 500 mcs to 40 Kmcs fabricated either by etched or printed circuit design. The required crystal holders must be mounted on appropriate brackets for attachment to the antenna and receiving equipment.

The bidder's proposed method of achieving the design and development of a broad band antenna, filter and video detector is outlined in Enclosure (A).

This quotation is predicated upon the award of a mutually acceptable cost-plus-fixed-fee type of contract.

Delivery of Phase I items can be made in accordance with the following schedule:

Items	Delivery Date
1, 2 and 3	Three months after receipt of contract award

In the event of award of contract based on this proposal, it is requested that provision be made for payments at intervals of not more than thirty (30) days, based on cost incurred and applicable proportion of the fixed fee.

Favorable consideration of the enclosed quotation is respectfully requested. Representatives of the bidder will be readily available in the event that further contractual or technical discussion is necessary. In matters pertaining to this quotation, please reference the subject proposal and address all inquiries to [redacted] 25X1 Contract Administrator, [redacted] 25X1 [redacted] 25X1

Very truly yours,

[redacted] 25X1

Contract Administrator

GWB/NKG/js

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Item	Description	Budgetary Selling Price
1	Development and Construction of One (1) each of the following: 16 Different Antennas 10 Different Filters 10 Different Detectors	$154,000

The above equipment shall be in accordance with the specifications as noted below:

A. Coverage from 50 mcs to 40 Kmcs is required.

B. Construction should be flat, two dimensional, with height and width dimensions limited to the values as specified in the following paragraph.

C. Crystal holders are required in reliable assemblies to be attached to the antennas used with specific holder and crystal.

D. Filters, where required, should be part of the antenna unless the physical size is prohibitive. Under these conditions the filter may be part of the crystal assembly.

E. The gain and beam patterns should not be less than a dipole. In cases where beam width and gain cannot be maintained above this standard, points of optimizing these factors will be provided.

F. Cable connectors for attaching the antenna to the receiver should be the MB type with molded fittings for maximum reliability under field operating conditions.

The following table established frequency, filter and size factors:

	FREQUENCY	FILTER	ANT. MAX. SIZE
A.	50-150 mcs	45-165 mcs	24" x 36"
B.	50-500 mcs	45-550 mcs	"
C.	50-1000 mcs	None	"
D.	150-500 mcs	135-550 mcs	"
E.	500-1000 mcs	450-1100 mcs	11" x 14"
F.	500-2500 mcs	450-2750 mcs	"
G.	1-2 Kmcs	900-2.2 Kmcs	4" x 6-1/2"
H.	1-3 Kmcs	900-5.5 Kmcs	"
I.	1-10 Kmcs	None	"
J.	1-20 Kmcs	None	"
K.	2-4 Kmcs	None	"
L.	4-8 Kmcs	1.8-4.4 Kmcs	"
M.	5-25 Kmcs	None	"
N.	8-16 Kmcs	7.2-17.2 Kmcs	"
O.	10-40 Kmcs	None	"
P.	16-32 Kmcs	None	"
Q.	For use with Antenna "A" above	55-75 mcs	

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